FRED M MOREAU DWFMM 1-5 DINWIDDIE COUNTY

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

•	ONN D. MONION AL LI	TEOLITI AID BIGGO					
PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS							
here as "Landowner", and remains in effect until it is to the Landowner in the even individual parcels identified	reement is made on NOV, 19. Recyc Systems, Inc., reeminated in writing by either tof a sale of one or more parol in this agreement changes, the eive biosolids or industrial res	eferred to here as the "Perm party or, with respect to tho cels, until ownership of all pa hose parcels for which owne	nittee". This agreement se parcels that are retained by arcels changes. If ownership of ership has changed will no				
Landowner: The Landowner is the owner the agricultural, silvicultural attached as Exhibit A.	er of record of the real propert or reclamation sites identified	y located in <u>Dinwidd</u> d below in Table 1 and ident	ட் Virginia, which includes ified on the tax map(s)				
	horized to receive biosolids, v	vater treatment residuals or	other industrial sludges				
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID				
38 193							
38 190							
☐ Additional parcels containing Land	d Application Sites are identified on S	Supplement A (check if applicable)	5)				
□ The	e Landowner is the sole owne e Landowner is one of multiple wner sells or transfers all or pa	e owners of the properties in	dentified herein.				
within 38 months of the late 1. Notify the purchase later than the date of	st date of biosolids application or or transferee of the applicab of the property transfer; and e of the sale within two weeks	n, the Landowner shall: le public access and crop n	nanagement restrictions no				
notify the Permittee immedi-	er agreements for land applica ately if conditions change suc f this agreement becomes inv	h that the fields are no long	er available to the Permittee				
agricultural sites identified a inspections on the land iden	nts permission to the Permitte bove and in Exhibit A. The L utified above, before, during o upliance with regulatory requir	andowner also grants perm r after land application of pe	ission for DEQ staff to conduct ermitted residuals for the				
ĭ Yes ☐ No I Ye	s 🗆 No	Yes □ No 🖫	ther industrial sludges I Yes ☐ No				
FERANDIM. MOREAU	Januara M. N.		2401 GRUBBY RD				
JANE C. MOREAU	Jone 6 m		CKSTONE, VA 23824				
Landowner - Printed Name, Title	// Signature	Mai	ling Address & Phone Number 434.294.5947				
Permittee:	ži.		13/12/11/2				
Recyc Systems, Inc., the F	Permittee, agrees to apply biosol						
	Permit Regulation and in amour plication field by a person certified		ntified in the nutrient management 14.2 of the Code of Virginia.				
	the Landowner or the Landowne ar application to the Landowner's		chedule for land application and e source of residuals to be applied.				
	assigning signatory authority to the for review upon request. (Do not		er above. I will make a copy of this gns this agreement)				
Strubo	Atuto	PO Box 562 Rei	mington, Virginia 22734				

Permittee – Authorized Representative Printed Name

Signature

Mailing Address

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee:	Recyc Systems, Inc	County or City:	DINIWIDDIE CO.
Landowner	FERNAND & TANE MOREAU		
	er Site Management Requirements:		
I, the Landow application of	ner, I have received a DEQ Biosolids Fact Shi biosolids, the components of biosolids and pr	eet that includes informa oper handling and land a	ition regarding regulations governing the lapplication of biosolids.
identified belo	een expressly advised by the Permittee that the low must be complied with after biosolids have consible for the implementation of these praction	been applied on my proj	
l agree to imp biosolids at th	ellement the following site management practic lie site:	es at each site under my	ownership following the land application
	ation Signs: I will not remove any signs posted ds land application site, unless requested by the eted.		
b.	Access Public access to land with a high potential for any application of biosolids. Public access to land with a low potential for application of biosolids. No biosolids amends ame period of time unless adequate provist Turf grown on land where biosolids are apply when the harvested turf is placed on either lotherwise specified by DEQ.	r public exposure shall b ded soil shall be excavat ions are made to preven lied shall not be harveste	e restricted for at least 30 days following ed or removed from the site during this at public exposure to soil, dusts or aerosoled for one year after application of biosolic
a. b.	estrictions: Food crops with harvested parts that touch not be harvested for 14 months after the approach food crops with harvested parts below the sapplication of biosolids when the biosolids months prior to incorporation into the soil, Food crops with harvested parts below the sbiosolids remain on the land surface for a tire.	plication of biosolids. surface of the land shall a emain on the land surface surface of the land shall a ne period of less than fo e harvested for 30 days	not be harvested for 20 months after the se for a time period of four (4) or more not be harvested for 38 months when the ur (4) months prior to incorporation. after the application of biosolids;
Fo	ck Access Restrictions: llowing biosolids application to pasture or hay Meat producing livestock shall not be grazed Lactating dairy animals shall not be grazed to Other animals shall be restricted from grazin	d for 30 days, for a minimum of 60 days	S.
applica	mental commercial fertilizer or manure applications such that the total crop needs for nutriented by a person certified in accordance with §	ts are not exceeded as i	dentified in the nutrient management plan
years for pounds	o, because it has been shown to accumulate ollowing the application of biosolids or industrilatore (0.5 kilograms/hectare).		admium equal to or exceeding 0.45
Landow	ner's Signature	· · · · · · · · · · · · · · · · · · ·	Nov, 19, 2014 Date
Fun Farm O	cond MARCOLL Operator Signature	2401 GRUBBY A	434.294. 5942 20, BVACKSTONE VA, 23824 ng Address & Phone Number

Rev 9/14/2012

FARM DATA SHEET

SITE NAME:	Fred M Moreau	COUNTY:	Dinwiddie
OWNER:	Fred & Jane Moreau	OPERATOR:	Fred M Moreau
OWNER'S	2401 Grubby Road	OPERATOR'S	2401 Grubby Road
ADDRESS:	Blackstone, VA 23824	ADDRESS:	Blackstone, VA 23824
OWNER'S TELEPHONE:	Fred: 434-294-5942 Jane: 434-294-5620	OPERATOR'S TELEPHONE:	434-294-5942
GENERAL FARM TYPE:	Crop	CELL PHONE:	
# CATTLE:	None	EMAIL:	-
LAGOON or SLURRY:	None	LATITUDE:	37.111
TOPO QUAD:	Darvills	LONGITUDE:	77.859
COMMENTS:		METHOD OF DETERMINATION:	Online Maps
	.		
		ei	AB/BB

FRED M. MOREAU DINWIDDIE COUNTY

NEW FIELD 1 IS OLD FIELDS 1 AND 2.

NEW FIELD 2 IS A NEW FIELD.

NEW FIELD 3 IS OLD FIELD 3.

NEW FIELD 4 IS OLD FIELD 4.

NEW FIELD 5 IS OLD FIELD 5.

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Landowner Coordination Form

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A Land Application Agreement-Biosolids and Industrial Residuals from original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee:

Recyc Systems, Inc.

Site Name:

Fred M Moreau

County or City:

Dinwiddie County

Please Print

Signature not required on this page

	I
Tax Parcel ID(s)	Landowners (s)
38-19B	Fred M & Jane C Moreau
38-19C	Fred M & Jane C Moreau

RECYC SYSTEMS, INC FIELD DATA SHEET

Field	Gross	Environi	Environmentally Sensitive Soils				Тах	FSA
Identification	Acres	Water Table	Bed Rock/ Shallow	Surf/ Leach	Freq Flood	Hydro	Man #	T
identification	Acies	Water Table	Silaliow	Leacii	Freq Flood	Мар	Мар#	Tract #
DWFMM 1	21.7	-	-	₩ :	-	CU 19	38-19B	T 585 F 3, 9, 11, 12
DWFMM 2N	2.3	-	_	4);	#5	CU 19	38-19B 38-19C	T 585 F 1
DWFMM 3	37.4	÷	(#	•)	×	CU 19	38-19B	T 585 F 5
DWFMM 4	8.1		:=		Į.	CU 19	38-19B	T 585 F 7, 10
DWFMM 5	7.9		19	<u> </u>	Ē	CU 19	38-19B	T 585 F 4
TOTAL ACRES IN SITE	77.4							

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet (Fall, 2020-Winter, 2022) Fred M. Moreau Planner: John Doe

Tract: 585

Location: Dinwiddie

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (Ibs/ac)	Leg /Man Resid	Manure/BiosId Rate & Type (season)	IT (d)	Man/Bios N-P-K (Ibs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
3, 9, 11, 12/DWFMM 1(N)	22/22	2020	Wheat (grain)	100-60-60	20/0				80-60-60	N/A			
1/DWFMM 2(N)	2/2	2020 2021	Wheat (grain)	100-60-60	0/0				100-60-60	N/A			
5/DWFMM 3(N)	37/37	2020 2021	Wheat (grain)	100-60-60	0/0				100-60-60	N/A			
7, 10/DWFMM 4(N)	8/8	2020 2021	Wheat (grain)	100-60-60	0/0				100-60-60	N/A			
4/DWFMM 5(N)	8/8	2020 2021	Wheat (grain)	100-60-60	0/0				100-60-60	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec. lime tons/Ac
585	DWFMM 1	22	[No Test]		•				10000000
585	DWFMM 2	2	[No Test]						
585	DWFMM 3	37	[No Test]						
585	DWFMM 4	8	[No Test]						
585	DWFMM 5	8	[No Test]						

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
585	585/3, 9, 11	DWFMM 1	22	Appling	IVa	II	111		
	585/1	DWFMM 2	2	Appling	IVa	11	111	Ш	
	585/5	DWFMM 3	37	Appling	IVa	II	Ш	III	
	585/7, 10	DWFMM 4	8	Appling	IVb	Ш	Ш	III	
	585/4	DWFMM 5	8	Appling	IVa	П	Ш	Ш	

Yield Range

Field Productivity Group			Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
	>170	>80	>64	>6	>4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

Farm Summary Report

Plan: New Plan Fall, 2020 - Winter, 2022

Farm Name: Fred M. Moreau

Location: Dinwiddie Specialist: John Doe N-based Acres: 77.4 P-based Acres: 0.0

Tract Name: 585 FSA Number: 585

Location: Dinwiddie

Field Name: DWFMM 1

Total Acres: 21.70 Usable Acres: 21.70

FSA Number: 3, 9, 11, 12

Tract: 585

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES

80 2B Appling
 12 2C Appling
 8 4B Cecil

Field Warnings:

Field Name:

DWFMM 2

Total Acres:

Usable Acres: 2.30 2.30

FSA Number:

1 585

В

Tract:

Location:

Dinwiddie

Slope Class:

Hydrologic Group:

В

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

PΗ Р K

Lab

[NO TEST]

Soils:

PERCENT

SYMBOL

SOIL SERIES

В

100

2B **Appling**

Field Warnings:

Field Name:

DWFMM 3

Total Acres:

37.40 Usable Acres: 37.40

FSA Number: 5

585

Tract: Location:

Dinwiddie

Slope Class:

В

Hydrologic Group:

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary N-based Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method Soil Test Results: Р DATE PΗ Κ Lab [NO TEST] Soils: **PERCENT** SYMBOL **SOIL SERIES** 2B **Appling** 88 12 2C Appling Field Warnings: Field Name: **DWFMM 4** Usable Acres: 8.10 Total Acres: 8.10 FSA Number: 7, 10 Tract: 585 Dinwiddie Location: Slope Class: Hydrologic Group: В В Riparian buffer width: 0 ft Distance to stream: 0 ft P-Index Summary N-based Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method Soil Test Results: Κ РΗ Р DATE Lab [NO TEST] Soils: **PERCENT SOIL SERIES** SYMBOL

2B

W

91

9

Appling

Water

Field Warnings:

Field Name: DWFMM 5

Total Acres: 7.90 Usable Acres: 7.90

FSA Number: 4 Tract: 585

Location: Dinwiddie

Slope Class: B Hydrologic Group: E

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES

95 2B Appling 5 2C Appling

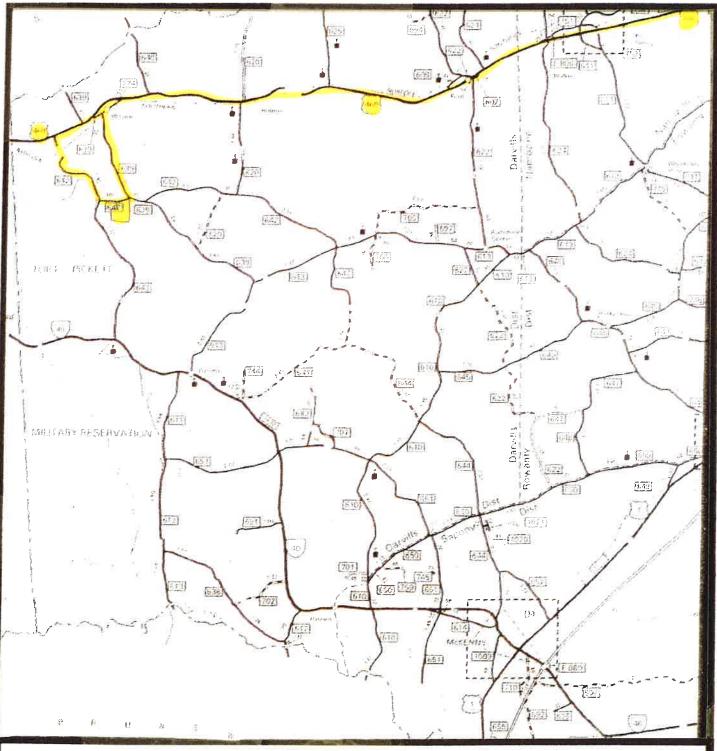
Field Warnings:

MAPS

Recyc Systems Inc.

(Biosolids Land Application)

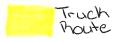




Scale:

inch=2miles

DWFMM 1-5



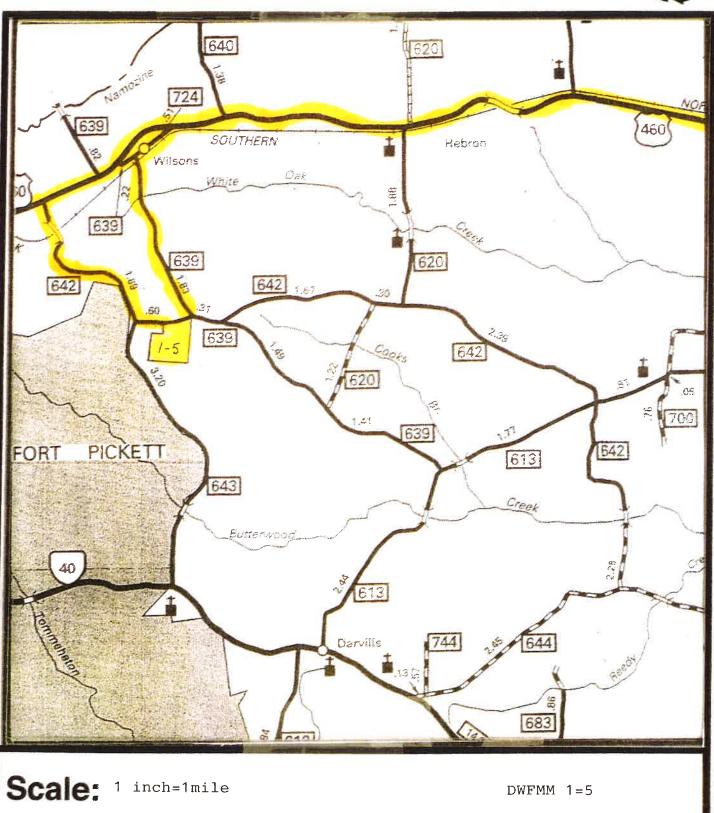
VICINITY MAP

N

Recyc Systems Inc.

(Biosolids Land Application)

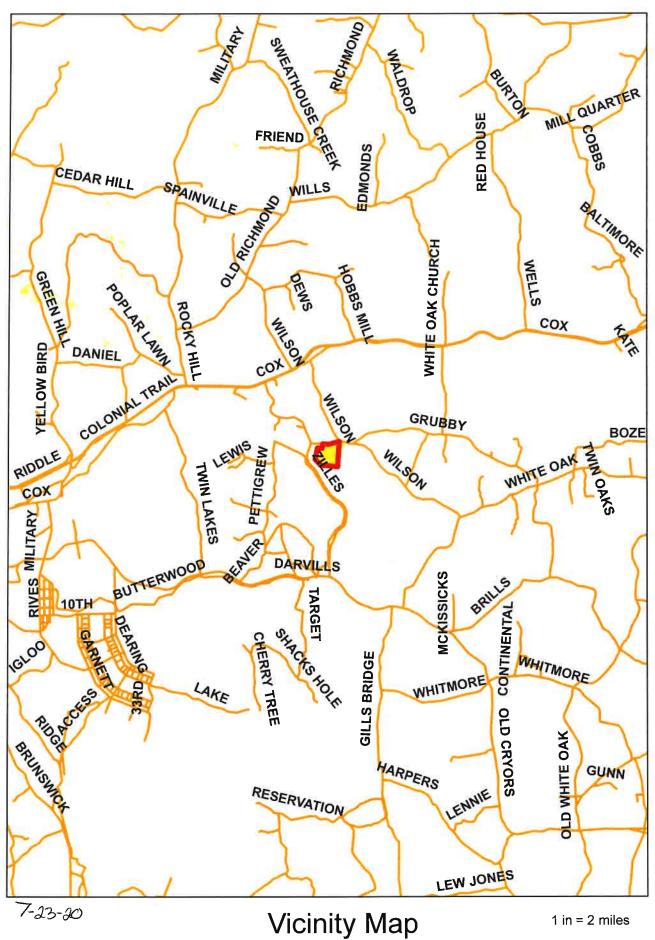






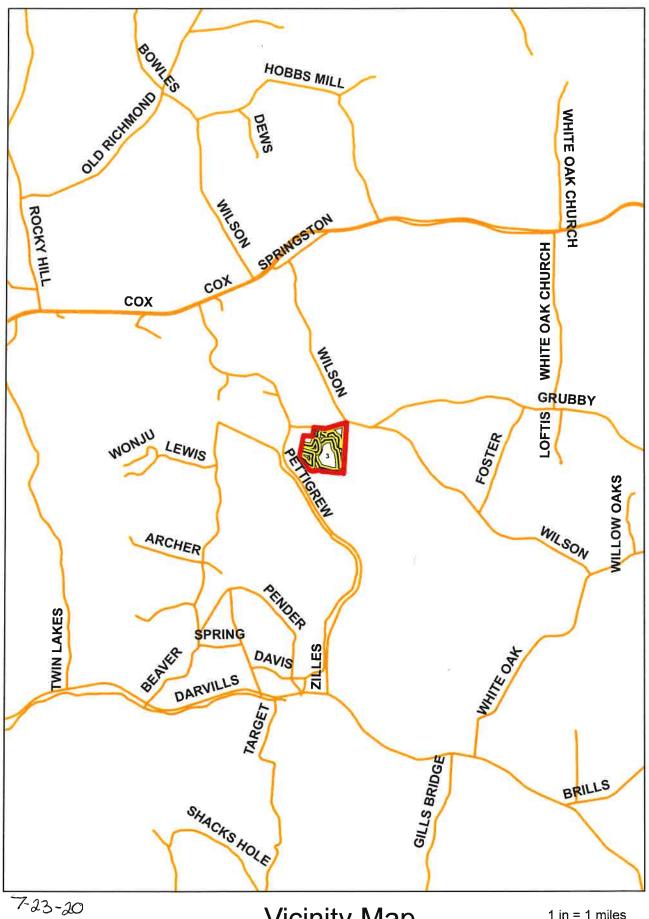
7-23-20









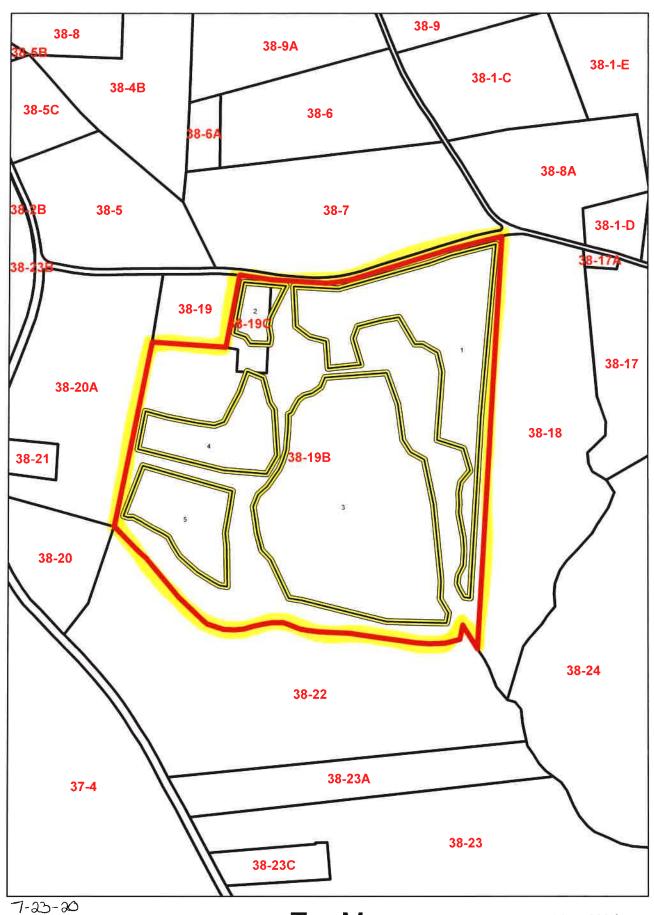




Vicinity Map



Fred M Moreau DWFMM



ADJOINING LANDOWNERS

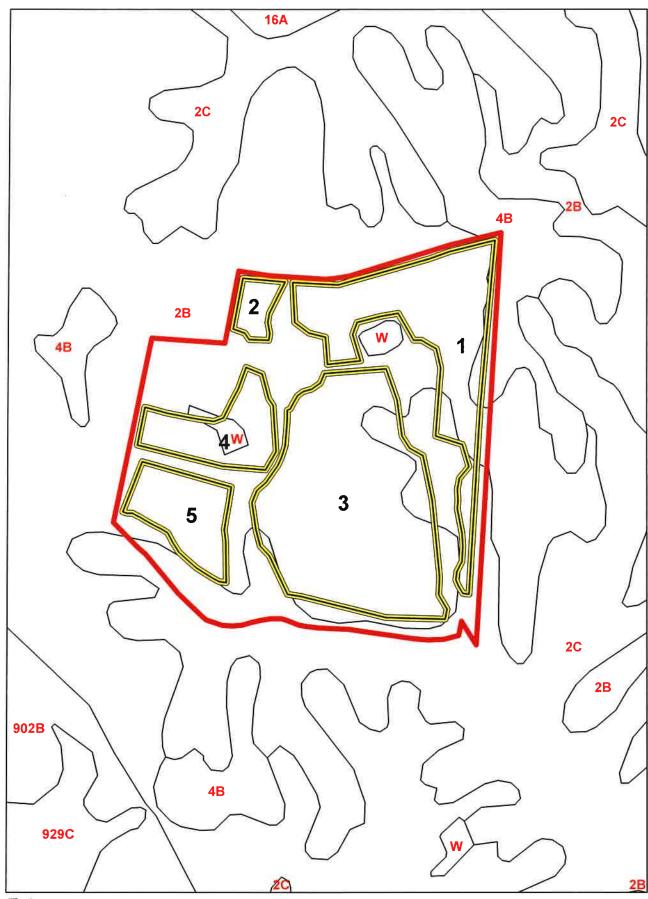
Fred M. Moreau

Dinwiddie County

Tax Map	Parcel #	Owner Name(s)
37	4	USA C/O Sup. Petersburg Natl Battlefield
38	7	Robert Curtis Blair Jr & Bettey Kay Mcloughlin Blair
	18	Robert Curtis Blair Jr & Bettey Kay Mcloughlin Blair
	19	Harrison or Deborah Moody
	20	Lois Paul & Eva M Moreau
	20A	Mary Lee Wallace
	22	Alan Wilson Smith



Fred M Moreau DWFMM











Tract 585

Dinwiddie County, Virginia

Farm 4060 3 19.90 HEL NHEL 4.50 HEL 2019 Program Year Map Created June 20, 2019 **Common Land Unit** 9.50 NHEL Non-Cropland Cropland rcl_l_va053 Tract Boundary **Wetland Determination Identifiers** Restricted Use Exempt from Conservation Compliance Provisions Tract Cropland Total: 86.33 acres

United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer accepts (NAID) imagery. The producer accepts the date 'ast is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).

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Legend For Site Plan

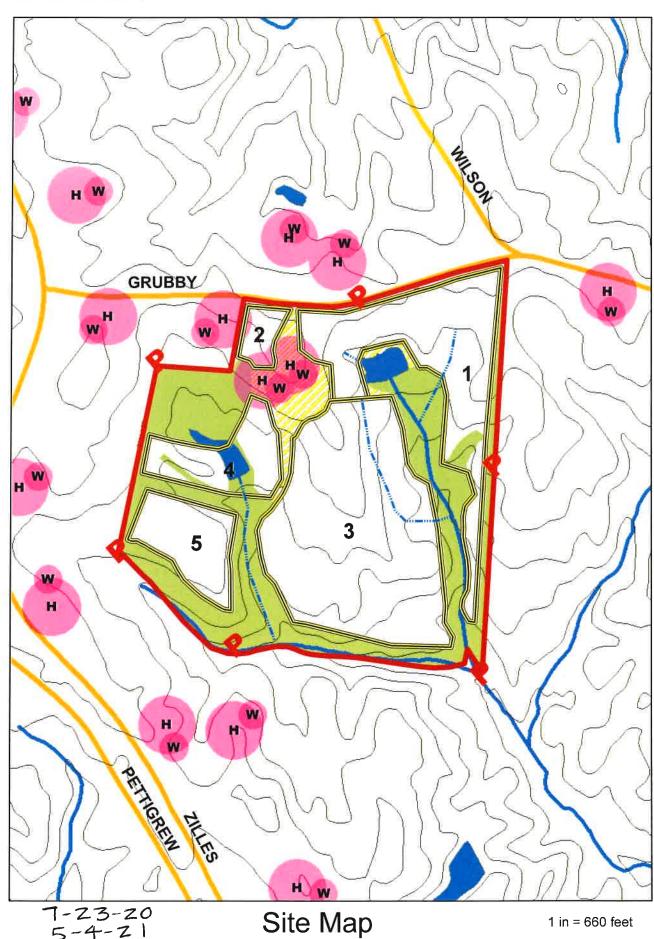
Symbol	Feature	Minimum Setback
H/W	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
w	Well or Spring	100 feet from water supply wells or springs
	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
ш	Wet Spot	9
	Trees and Woods	
	Private Drive	
R	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
≣	Severely Eroded Spot	18 Inch minimum depth of soil
s A	Sink Hole	100 feet from open sinkholes 50 feet from closed sinkholes
	State Road	10 feet from side of roadway
	Fence / Field Boundary	
_P _ P_ P_	Property Line	100 feet from property line *
SL S	Slope	15% maximum
	Hashed out Area	No application

^{*}Buffer can be reduced or waived upon written consent from landowner.



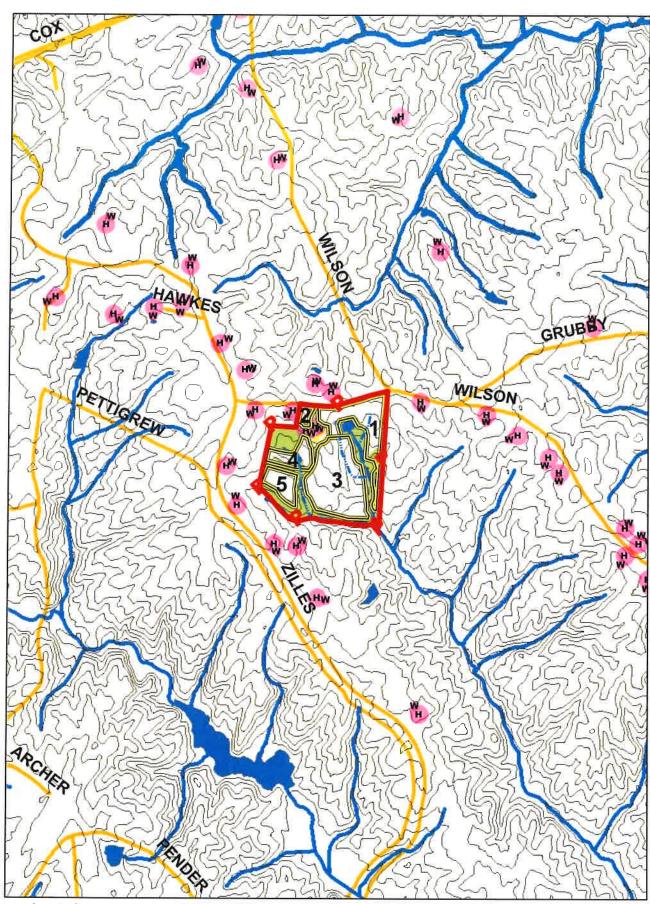
Fred M. Moreau **DWFMM**

1 in = 660 feet





Fred M. Moreau DWFMM



A

7-23-20 Topogra

Topographic Map

1 in = 2,000 feet